

CLAIMS

1. A receiving device which receives a transmission unit signal sent from a sending device via a predetermined transmission path, the transmission unit signal containing a plurality of encoded element periodic signals, and which executes a reproduction output corresponding to an element periodic signal that is a decoding result of the plurality of encoded element periodic signals extracted from the transmission unit signal, the plurality of encoded element periodic signals being obtained by dividing an original periodic signal produced from a predetermined source of production in accordance with respective logic channels;

the receiving device comprising:

an interference event detecting means for detecting that a predetermined interference event to interfere with using of the encoded element periodic signals packed in the transmission unit signal for the reproduction output occurs in any of the transmission unit signals received in a time series during transmission via the transmission path; and

interpolation means of the number of the logic channels, each of which produces an alternative element periodic signal on the basis of a predetermined period and interpolates the alternative element periodic signal into a series of element periodic signals when the interference event detecting means detects occurrence of the interference event, the alternative element periodic signal being to become alternative to the encoded element periodic signal packed in the transmission unit signal;

wherein each of the plurality of interpolation means provided for the respective logic channels includes an element periodic signal storing section for storing the element periodic signal of the decoding result of the

encoded element periodic signal extracted from the transmission unit signal received by each corresponding logic channel;

wherein any one of the plurality of interpolation means provided for the respective logic channels includes:

a period calculating section for calculating a value of the period, which is information to become a base for producing the alternative element periodic signal and is common to the respective element periodic signals obtained by dividing the same original periodic signal, from the element periodic signal stored in the element periodic signal storing section; and

a period notifying section for giving a notice of the value of the calculated period to other interpolation means.

2. The receiving device according to claim 1, wherein each of at least two of the plurality of interpolation means provided for the respective logic channels includes the element periodic signal storing section, the period calculating section, and the period notifying section.

3. A receiving method for receives a transmission unit signal sent from a sending device via a predetermined transmission path, the transmission unit signal containing a plurality of encoded element periodic signals, and for executing a reproduction output corresponding to an element periodic signal that is a decoding result of the plurality of encoded element periodic signals extracted from the transmission unit signal, the plurality of encoded element periodic signals being obtained by dividing an original periodic signal produced from a predetermined source of production in accordance with respective logic channels;

the receiving method comprising the steps of:
detecting, by an interference event detecting means,
that a predetermined interference event to interfere with
using of the encoded element periodic signals packed in
the transmission unit signal for the reproduction output
occurs in any of the transmission unit signals received in
a time series during transmission via the transmission
path; and

producing an alternative element periodic signal on
the basis of a predetermined period and interpolating the
alternative element periodic signal into a series of
element periodic signals when the interference event
detecting means detects occurrence of the interference
event, the alternative element periodic signal being to
become alternative to the encoded element periodic signal
packed in the transmission unit signal, by each of
interpolation means of the number of the logic channels;

wherein each of the plurality of interpolation means
provided for the respective logic channels causes an
element periodic signal storing section to store the
element periodic signal of the decoding result of the
encoded element periodic signal extracted from the
transmission unit signal received by each corresponding
logic channel;

wherein any one of the plurality of interpolation
means provided for the respective logic channels

causes a period calculating section to calculate a
value of the period, which is information to become a base
for producing the alternative element periodic signal and
is common to the respective element periodic signals
obtained by dividing the same original periodic signal,
from the element periodic signal stored in the element
periodic signal storing section; and

causes a period notifying section to give a notice

of the value of the calculated period to other
interpolation means.